In the specification:

At page 12, line 5:

 ${\rm H_3O}^+, 2.22\%;$ Ca, 602 ppm; SO₄, 7356000 1422160 ppm; K, 38.02 ppb; and neither Na nor Mg was detected.

In the claims:

- 1. (Currently amended) A composition having an acidic pH, the composition being prepared by mixing ingredients comprising:
 - a an inorganic salt of phosphoric acid; and
- a preformed, or in-situ generated, solution or suspension of an acidic sparingly-soluble Group IIA complex ("AGIIS"), wherein the solution or suspension of the AGIIS is isolated produced from a mixture comprising sulfuric acid and calcium hydroxide, or a minorganic calcium salt, or a mixture of the two, wherein the mole ratio of calcium hydroxide to sulfuric acid is less than about 0.5 for every mole of sulfuric acid, the calcium hydroxide and calcium salt used is less than or equal to 0.45 moles, and wherein the solution or suspension of AGIIS is in an amount sufficient to render the acidic pH of the composition to be less than about 2.
 - 2. (Cancelled)
- 3. (Previously amended) The composition of claim 1, wherein the calcium salt comprises calcium sulfate.
- 4. (Original) The composition of claim 1, wherein the solution or suspension of AGIIS having a certain acid normality is less effective in charring sucrose and less corrosive to an animal skin than a saturated solution of calcium sulfate in sulfuric acid having the same acid normality, and

wherein the solution or suspension of an AGIIS is of low volatility at room temperature and pressure.

- 5. (Original) The composition of claim 1, wherein the salt of phosphoric acid comprises a divalent metal salt of phosphoric acid.
- 6. (Original) The composition of claim 5, wherein the divalent metal comprises an alkali earth metal or a metal of first transition series.
- 7. (Original) The composition of claim 1, wherein the salt of phosphoric acid comprises a mono-valent metal salt of phosphoric acid.
- 8. (Original) The composition of claim 7, wherein the mono-valent metal comprises an alkali metal.
- 9. (Currently amended) The composition of claim 1, further comprising an additive, wherein the additive comprises an alcohol.
 - 10. (Cancelled)
- 11. (Currently amended) The composition of claim 10 9, wherein the alcohol comprises a lower aliphatic alcohol having six or less carbon atoms.
- 12. (Currently amended) The composition of claim 9 1, <u>further comprising an additive</u>, wherein the additive comprises an organic acid.
- 13. (Original) The composition of claim 12, wherein the organic acid comprises lactic acid, acetic acid, propionic acid, oxalic acid, peracetic acid, sorbic acid, benzoic acid, butyric acid, glycolic acid, formic acid, monoperphthalic acid, or a mixture thereof.

- 14. (Currently amended) The composition of claim 9 1, <u>further comprising an additive</u>, wherein the additive comprises a surface active agent.
- 15. (Original) The composition of claim 14, wherein the surface active agent comprises a cationic surface active agent, an anionic surface agent, a non-ionic surface active agent, or a mixture thereof.
- 16. (Currently amended) The composition of claim 9 1, <u>further comprising an additive</u>, wherein the additive comprises a periodic acid.
- 17. (Currently amended) The composition of claim 9 1, <u>further comprising an additive</u>, <u>wherein the additive comprises an alcohol</u>, an <u>organic acid</u>, a <u>surface active agent</u>, a <u>periodic acid</u>, or <u>a mixture thereof</u>, and wherein, based on the final weight of the composition, the amount of the additive ranges from about 0.01% to about 99%.
- 18. (Original) The composition of claim 1, wherein the solution or suspension of AGIIS is present in an amount in excess of the amount required to completely convert the salt of phosphoric acid to phosphoric acid.
- 19. (Currently amended) A composition having an acidic pH, the composition being prepared by mixing ingredients comprising:
 - a an inorganic salt of phosphoric acid; and
- a preformed, or in-situ generated, solution or suspension of an acidic sparingly-soluble Group IIA complex ("AGIIS"), wherein the solution or suspension of AGIIS is in an amount sufficient to render the acidic pH of the composition to be less than about 2;

wherein the solution or suspension of the AGIIS is isolated produced from a mixture comprising sulfuric acid and calcium hydroxide, or a an inorganic calcium salt, or a mixture of the two, wherein the mole ratio of calcium hydroxide to sulfuric acid is less than about 0.5 for every mole of sulfuric acid, the calcium hydroxide and calcium salt used is less than or equal to 0.45 moles, and wherein the solution or suspension of AGIIS having a certain acid normality is less

effective in charring sucrose and less corrosive to an animal skin than a saturated solution of calcium sulfate in sulfuric acid having the same acid normality, and wherein the solution or suspension of an AGIIS is of low volatility at room temperature and pressure; and

wherein the salt of phosphoric acid comprises a divalent metal salt of phosphoric acid or a mono-valent metal salt of phosphoric acid.

20. (Currently amended) The composition of claim 19, further comprising an additive, wherein the additive comprises lactic acid, acetic acid, propionic acid, oxalic acid, peracetic acid, sorbic acid, benzoic acid, butyric acid, glycolic acid, formic acid, monoperphthalic acid, or a mixture thereof.

21. (Cancelled)

- 22. (Original) The composition of claim 19, wherein the solution or suspension of AGIIS is in an amount in excess of the amount required to completely convert the salt of phosphoric acid to phosphoric acid.
- 23. (Currently amended) A composition having an acidic pH, the composition being prepared by mixing ingredients comprising:
 - a an inorganic salt of phosphoric acid;
- a preformed, or in-situ generated, solution or suspension of an acidic sparingly-soluble Group IIA complex ("AGIIS"), wherein the solution or suspension of AGIIS is in an amount sufficient to render the acidic pH of the composition to be less than about 2; and
- an organic acid comprising lactic acid, acetic acid, propionic acid, oxalic acid, peracetic acid, sorbic acid, benzoic acid, butyric acid, glycolic acid, formic acid, monoperphthalic acid, or a mixture thereof;

wherein the solution or suspension of the AGIIS is isolated produced from a mixture comprising sulfuric acid and calcium hydroxide, or a <u>an inorganic</u> calcium salt, or a mixture of the two, wherein the mole ratio of calcium hydroxide to sulfuric acid is less than about 0.5 for every mole of sulfuric acid, the calcium hydroxide and calcium salt used is less than or equal to 0.45

moles, and wherein the solution or suspension of AGIIS having a certain acid normality is less effective in charring sucrose and less corrosive to an animal skin than a saturated solution of calcium sulfate in sulfuric acid having the same acid normality, and wherein the solution or suspension of an AGIIS is of low volatility at room temperature and pressure; and

wherein the salt of phosphoric acid comprises a divalent metal salt of phosphoric acid or a mono-valent metal salt of phosphoric acid.

- 24. (Original) The composition of claim 23, wherein the solution or suspension of AGIIS is in an amount in excess of the amount required to completely convert the salt of phosphoric acid to phosphoric acid.
 - 25. (Currently amended) A prepared nutriment comprising: a nutriment material; and

absorbed therein or adsorbed thereon being a solution or suspension of a composition having an acidic pH, the composition being prepared by mixing ingredients comprising:

a an inorganic salt of phosphoric acid; and

preformed, or in-situ generated, solution or suspension of an acidic sparingly-soluble Group IIA complex ("AGIIS"), wherein the solution or suspension of the AGIIS is isolated produced from a mixture comprising sulfuric acid and calcium hydroxide, or a an inorganic calcium salt, or a mixture of the two, wherein the mole ratio of calcium hydroxide to sulfuric acid is less than about 0.5 for every mole of sulfuric acid, the calcium hydroxide and calcium salt used is less than or equal to 0.45 moles, and wherein the solution or suspension of AGIIS is in an amount sufficient to render the acidic pH of the composition to be less than about 2.

- 26. (Cancelled)
- 27. (Previously amended) The prepared nutriment of claim 25, wherein the calcium salt comprises calcium sulfate.

- 28. (Original) The prepared nutriment of claim 25, wherein the solution or suspension of AGIIS having a certain acid normality is less effective in charring sucrose and less corrosive to an animal skin than a saturated solution of calcium sulfate in sulfuric acid having the same acid normality, and wherein the solution or suspension of an AGIIS is of low volatility at room temperature and pressure.
- 29. (Original) The prepared nutriment of claim 25, wherein the salt of phosphoric acid comprises a divalent metal salt of phosphoric acid.
- 30. (Original) The prepared nutriment of claim 29, wherein the divalent metal comprises an alkali earth metal or a metal of first transition series.
- 31. (Original) The prepared nutriment of claim 25, wherein the salt of phosphoric acid comprises a mono-valent metal salt of phosphoric acid.
- 32. (Original) The prepared nutriment of claim 31, wherein the mono-valent metal comprises an alkali metal.
- 33. (Currently amended) The prepared nutriment of claim 25, further comprising an additive, wherein the additive comprises an alcohol.
 - 34. (Cancelled)
- 35. (Currently amended) The prepared nutriment of claim 34 33, wherein the alcohol comprises a lower aliphatic alcohol having six or less carbon atoms.
- 36. (Currently amended) The prepared nutriment of claim 33 25, <u>further comprising an additive</u>, wherein the additive comprises an organic acid.

- 37. (Original) The prepared nutriment of claim 36, wherein the organic acid comprises lactic acid, acetic acid, propionic acid, oxalic acid, peracetic acid, sorbic acid, benzoic acid, butyric acid, glycolic acid, formic acid, monoperphthalic acid, or a mixture thereof.
- 38. (Currently amended) The prepared nutriment of claim 33 25, <u>further comprising an additive</u>, wherein the additive comprises a cationic surface active agent, an anionic surface active agent, a non-ionic surface active agent, or a mixture thereof.
- 39. (Currently amended) The prepared nutriment of claim 25, <u>further comprising an additive</u>, wherein the additive comprises periodic acid.
- 40. (Original) The prepared nutriment of claim 25, wherein the nutriment material comprises an animal product, a plant product, a beverage, or a mixture thereof.
- 41. (Original) The prepared nutriment of claim 25, wherein the solution or suspension of AGIIS is in an amount in excess of the amount required to completely convert the salt of phosphoric acid to phosphoric acid.
- 42. (Original) The prepared nutriment of claim 41 further comprising lactic acid, acetic acid, propionic acid, oxalic acid, peracetic acid, sorbic acid, benzoic acid, butyric acid, glycolic acid, formic acid, monoperphthalic acid, or a mixture thereof.
 - 43. (Currently amended) A prepared nutriment comprising: a nutriment material; and

absorbed therein or adsorbed thereon being a solution or suspension of a composition having an acidic pH, the composition being prepared by mixing ingredients comprising:

a divalent or mono-valent metal salt of phosphoric acid; and

preformed, or in-situ generated, solution or suspension of an acidic sparingly-soluble Group IIA complex ("AGIIS"), wherein the solution or suspension of the AGIIS is isolated produced from a mixture comprising sulfuric acid and calcium hydroxide, or a an inorganic

calcium salt, or a mixture of the two, wherein the mole ratio of calcium hydroxide to sulfuric acid is less than about 0.5 for every mole of sulfuric acid, the calcium hydroxide and calcium salt used is less than or equal to 0.45 moles, and wherein the solution or suspension of AGIIS is in an amount sufficient to render the acidic pH of the composition to be less than about 2; and

an additive comprising an alcohol, an organic acid, a periodic acid, a surface active agent, or a combination thereof.

- 44. (Previously amended) The prepared nutriment of claim 43, wherein the calcium salt comprises calcium sulfate.
- 45. (Original) The prepared nutriment of claim 43, wherein the solution or suspension of AGIIS having a certain acid normality is less effective in charring sucrose and less corrosive to an animal skin than a saturated solution of calcium sulfate in sulfuric acid having the same acid normality, and wherein the solution or suspension of an AGIIS is of low volatility at room temperature and pressure.
- 46. (Original) The prepared nutriment of claim 43, wherein the divalent metal comprises an alkali earth metal or a metal of first transition series.
- 47. (Original) The prepared nutriment of claim 43, wherein the mono-valent metal comprises an alkali metal.
- 48. (Original) The prepared nutriment of claim 43, wherein the additive comprises lactic acid, acetic acid, propionic acid, oxalic acid, peracetic acid, sorbic acid, butyric acid, glycolic acid, formic acid, monoperphthalic acid, or a mixture thereof.
- 49. (Original) The prepared nutriment of claim 43, wherein the additive comprises a cationic surface agent, an anionic surface active agent, a non-ionic surface active agent, or a mixture thereof.

- 50. (Original) The prepared nutriment of claim 43, wherein the nutriment material comprises an animal product, a plant product, a beverage, or a mixture thereof.
- 51. (Original) The prepared nutriment of claim 43, wherein the solution or suspension of AGIIS is in an amount in excess of the amount required to completely convert the divalent or the mono-valent metal salt of phosphoric acid to phosphoric acid.
 - 52. (Currently amended) A prepared nutriment comprising: a nutriment material; and

absorbed therein or adsorbed thereon being a solution or suspension of a composition having an acidic pH, the composition being prepared by mixing ingredients comprising:

a divalent or mono-valent metal salt of phosphoric acid;

a preformed, or in-situ generated, solution or suspension of an acidic sparingly-soluble Group IIA complex ("AGIIS"), wherein the solution or suspension of the AGIIS is isolated produced from a mixture comprising sulfuric acid and calcium hydroxide, or a an inorganic calcium salt, or a mixture of the two, wherein the mole ratio of calcium hydroxide to sulfuric acid is less than about 0.5 for every mole of sulfuric acid, the calcium hydroxide and calcium salt used is less than or equal to 0.45 moles, and wherein the solution or suspension of AGIIS is in an amount in excess of the amount required to completely convert the salt of divalent or mono-valent metal salt of phosphoric acid to phosphoric acid; and

an additive comprising an alcohol, an organic acid, a periodic acid, a surface active agent, or a combination thereof.

- 53. (Previously amended) The prepared nutriment of claim 52, wherein the calcium salt comprises calcium sulfate.
- 54. (Original) The prepared nutriment of claim 52, wherein the solution or suspension of AGIIS having a certain acid normality is less effective in charring sucrose and less corrosive to an animal skin than a saturated solution of calcium sulfate in sulfuric acid having the same acid

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normality, and wherein the solution or suspension of an AGIIS is of low volatility at room temperature and pressure.

- 55. (Original) The prepared nutriment of claim 52, wherein the divalent metal comprises an alkali earth metal or a metal of first transition series.
- 56. (Original) The prepared nutriment of claim 52, wherein the mono-valent metal comprises an alkali metal.
- 57. (Original) The prepared nutriment of claim 52, wherein the additive comprises lactic acid, acetic acid, propionic acid, oxalic acid, peracetic acid, sorbic acid, benzoic acid, butyric acid, glycolic acid, formic acid, monoperphthalic acid, or a mixture thereof.
- 58. (Original) The prepared nutriment of claim 52, wherein the additive comprises a cationic surface agent, an anionic surface active agent, a non-ionic surface active agent, or a mixture thereof.
- 59. (Original) The prepared nutriment of claim 52, wherein the nutriment material comprises an animal product, a plant product, a beverage, or a mixture thereof.
 - 60. (Cancelled)
 - 61. (Cancelled)
 - 62. (Cancelled)
 - 63. (Cancelled)
 - 64. (Cancelled)

65. (Currently amended) A method for reducing biological contaminants in a nutriment material comprising:

contacting the nutriment material with a solution or suspension of a composition having an acidic pH, the composition being prepared by mixing ingredients comprising:

a an inorganic salt of phosphoric acid; and

a preformed, or in-situ generated, solution or suspension of an acidic sparingly-soluble Group IIA complex ("AGIIS"), wherein the solution or suspension of the AGIIS is isolated produced from a mixture comprising sulfuric acid and calcium hydroxide, or a an inorganic calcium salt, or a mixture of the two, wherein the mole ratio of calcium hydroxide to sulfuric acid is less than about 0.5 for every mole of sulfuric acid, the calcium hydroxide and calcium salt used is less than 0.45 moles, and wherein the solution or suspension of AGIIS is in an amount sufficient to render the acidic pH of the composition to be less than about 2.

- 66. (Cancelled)
- 67. (Previously amended) The method of claim 65, wherein the calcium salt comprises calcium sulfate.
- 68. (Original) The method of claim 65, wherein the solution or suspension of AGIIS having a certain acid normality is less effective in charring sucrose and less corrosive to an animal skin than a saturated solution of calcium sulfate in sulfuric acid having the same acid normality, and wherein the solution or suspension of an AGIIS is of low volatility at room temperature and pressure.
- 69. (Original) The method of claim 65, wherein the salt of phosphoric acid comprises a divalent metal salt of phosphoric acid.
- 70. (Original) The method of claim 69, wherein the divalent metal comprises an alkali earth metal or a metal of first transition series.

- 71. (Original) The method of claim 65, wherein the salt of phosphoric acid comprises a mono-valent metal salt of phosphoric acid.
- 72. (Original) The method of claim 65, wherein the mono-valent metal comprises an alkali metal.
- 73. (Currently amended) The method of claim 65, further comprising wherein the composition further comprises an additive, and wherein the additive comprises an alcohol.
 - 74. (Cancelled)
- 75. (Currently amended) The method of claim 74 73, wherein the alcohol comprises a lower aliphatic alcohol having six or less carbon atoms.
- 76. (Currently amended) The method of claim 73 65, wherein the composition further comprises an additive, and wherein the additive comprises an organic acid.
- 77. (Original) The method of claim 76, wherein the organic acid comprises lactic acid, acetic acid, propionic acid, oxalic acid, peracetic acid, sorbic acid, benzoic acid, butyric acid, glycolic acid, formic acid, monoperphthalic acid, or a mixture thereof.
- 78. (Currently amended) The method of claim 73 65, wherein the composition further comprises an additive, and wherein the additive comprises a surface active agent.
- 79. (Original) The method of claim 78, wherein the surface active agent comprises a cationic surface active agent, an anionic surface active agent, a non-ionic surface active agent, or a mixture thereof.
- 80. (Currently amended) The method of claim 73 65, wherein the composition further comprises an additive, and wherein the additive comprises periodic acid.

- 81. (Original) The method of claim 65, wherein the nutriment material comprises an animal product, a plant product, a beverage, or a mixture thereof.
- 82. (Original) The method of claim 65, wherein the solution of suspension of AGIIS is in an amount in excess of the amount required to completely convert the salt of phosphoric acid to phosphoric acid.
- 83. (Original) The method of claim 65, wherein the biological contaminants comprise microbes.
- 84. (Original) The method of claim 65, wherein the biological contaminants comprise mold.
- 85. (Currently amended) A method for reducing biological contaminants in a nutriment material comprising:

contacting the nutriment material with a solution or suspension of an composition having an acidic pH, the composition being prepared by mixing ingredients comprising:

a divalent or mono-valent metal salt of phosphoric acid;

a preformed, or in-situ generated, solution or suspension of an acidic sparingly-soluble Group IIA complex ("AGIIS"), wherein the solution or suspension of the AGIIS is isolated produced from a mixture comprising sulfuric acid and calcium hydroxide, or a an inorganic calcium salt, or a mixture of the two, wherein the mole ratio of calcium hydroxide to sulfuric acid is less than about 0.5 for every mole of sulfuric acid, the calcium hydroxide and calcium salt used is less than or equal to 0.45 moles, and wherein the solution or suspension of AGIIS is in an amount sufficient to render the acidic pH of the composition to be less than about 2; and

an additive comprising an alcohol, an organic acid, a periodic acid, a surface active agent, or a combination thereof.

- 86. (Previously amended) The method of claim 85, wherein the calcium salt comprises calcium sulfate.
- 87. (Original) The method of claim 85, wherein the solution or suspension of AGIIS having a certain acid normality is less effective in charring sucrose and less corrosive to an animal skin than a saturated solution of calcium sulfate in sulfuric acid having the same acid normality, and wherein the solution or suspension of an AGIIS is of low volatility at room temperature and pressure.
- 88. (Original) The method of claim 85, wherein the divalent metal comprises an alkali earth metal or a metal of first transition series.
- 89. (Original) The method of claim 85, wherein the mono-valent metal comprises an alkali metal.
- 90. (Original) The method of claim 85, wherein the additive comprises lactic acid, acetic acid, propionic acid, oxalic acid, peracetic acid, sorbic acid, benzoic acid, butyric acid, glycolic acid, formic acid, monoperphthalic acid, or a mixture thereof.
- 91. (Original) The method of claim 85, wherein the additive comprises a cationic surface active agent, an anionic surface active agent, a non-ionic surface active agent, or a mixture thereof.
- 92. (Original) The method of claim 85, wherein the additive comprises a lower aliphatic alcohol having six or less carbon atoms.
- 93. (Original) The method of claim 85, wherein the nutriment material comprises an animal product, a plant product, a beverage, or a mixture thereof.

- 94. (Original) The method of claim 85, wherein the solution or suspension of AGIIS is in an amount in excess of the amount required to completely convert the divalent or mono-valent metal salt of phosphoric acid to phosphoric acid.
- 95. (Original) The method of claim 85, wherein the biological contaminants comprise microbes.
- 96. (Original) The method of claim 85, wherein the biological contaminants comprise mold.
- 97. (Previously added) The composition of claim 1, wherein the calcium salt is calcium sulfate, calcium oxide, or calcium carbonate.
- 98. (Previously added) The prepared nutriment of claim 25, wherein the calcium salt is calcium sulfate, calcium oxide, or calcium carbonate.
- 99. (Previously added) The prepared nutriment of claim 43, wherein the calcium salt is calcium sulfate, calcium oxide, or calcium carbonate.
- 100. (Previously added) The prepared nutriment of claim 52, wherein the calcium salt is calcium sulfate, calcium oxide, or calcium carbonate.
- 101. (Previously added) The method of claim 65, wherein the calcium salt is calcium sulfate, calcium oxide, or calcium carbonate.
- 102. (Previously added) The method of claim 85, wherein the calcium salt is calcium sulfate, calcium oxide, or calcium carbonate.